§ 90.259

§ 90.259 Assignment and use of frequencies in the bands 216–220 MHz and 1427–1435 MHz.

Frequencies in the bands 216-220 MHz and 1427-1435 MHz may be assigned to applicants under this part provided the bands are listed in the individual radio service under which they establish eligibility. Use of these bands is limited to telemetering purposes, except that the 216-220 MHz band may also be used for wildlife and ocean buoy tracking operations pursuant to §90.248. All operation is secondary to Federal Government operations, and operation in the 216-220 MHz band is also secondary to the maritime mobile service and operation in the 1427-1429 MHz band is also secondary to the space operation service (earth-to-space). Base stations authorized in these bands shall be used to perform telecommand functions with associated mobile telemetering stations. Base stations may also command actions by the vehicle itself, but will not be authorized solely to perform this function. Airborne use will not be authorized. Each application will be coordinated with the Federal Government by the Federal Communications Commission and is subject to such technical and operational limitations as may be imposed by the government. Each application should include precise information concerning emission characteristics, transmitter frequency deviation, output power, type and directional characteristics, if any, of the antenna, and the minimum necessary hours of operation.

[63 FR 64209, Nov. 19, 1998]

§ 90.261 Assignment and use of the frequencies in the band 450-470 MHz for fixed operations.

(a) Frequencies in the 450-470~MHz band as listed in $\S 90.20(\text{c})(3)$ and $\S 90.35(\text{b})(3)$ may be assigned to all eligibles for fixed use on a secondary basis to land mobile operations.

(b) Fixed stations located 140 km (87 mi) or more from the center of any urbanized area of 600,000 or more population are limited to a transmitter output power of 75 watts. Fixed stations than 140 km (87 mi) from the centers of these areas are limited to a transmitter output power of 20 watts. Urbanized areas of 600,000 or more pop-

ulation are defined in the U.S. Census of Population 1970, Vol. 1, Table 20, pages 1-74. The centers of the urbanized areas are determined from the Appendix, page 226, of the U.S. Department of Commerce publication "Airline Distance Between Cities in the United States."

(c) All fixed systems are limited to one frequency pair with 5 MHz spacing and must employ directional antennas with a front-to-back ratio of 15 dB, except that omnidirectional antennas having unity gain may be employed by stations communicating with a minimum of three receiving locations encompassed in a sector of at least 160° in azimuth. Stations authorized for secondary fixed operations prior to (effective date of the rules) may continue to operate under the conditions of their initial authorization.

(d)-(e) [Reserved]

(f) Secondary fixed operations pursuant to paragraph (a) of this section will not be authorized on the following frequencies:

Frequencies (MHz)

451.800/456.800	453.08125/458.08125
451.80625/456.80625	453.0875/458.0875
451.8125/456.8125	453.09375/458.09375
451.81875/456.81875	453.125/458.125
452.525	453.13125/458.13125
452.53125	453.1375/458.1375
452.5375	453.14375/458.14375
452.54375	453.175/458.175
452.550	453.18125/458.18125
452.55625	453.1875/458.1875
452.5625	453.19375/458.19375
452.56875	454.000/459.000
452.575	454.00625/459.00625
452.58125	454.0125/459.0125
452.5875	454.01875/459.01875
452.59375	462.950/467.950
452.600	462.95625/467.95625
452.60625	462.9625/467.9625
452.6125	462.96875/467.96875
452.61875	462.975/467.975
452.925/457.925	462.98125/467.98125
452.93125/457.93125	462.9875/467.9875
452.9375/457.9375	462.99375/467.99375
452.94375/457.94375	463.000/468.000
452.950/457.950	463.00625/468.00625
452.95625/457.95625	463.0125/468.0125
452.9625/457.9625	463.01875/468.01875
452.96875/457.96875	463.025/468.025
453.025/458.025	463.03125/468.03125
453.03125/458.03125	463.0375/468.0375
453.0375/458.0375	463.04375/468.04375
453.04375/458.04375	463.050/468.050
453.075/458.075	463.05625/468.05625